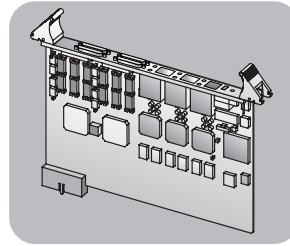


HP StorageWorks

Connecting Two SANs to ESL E-Series Robotics

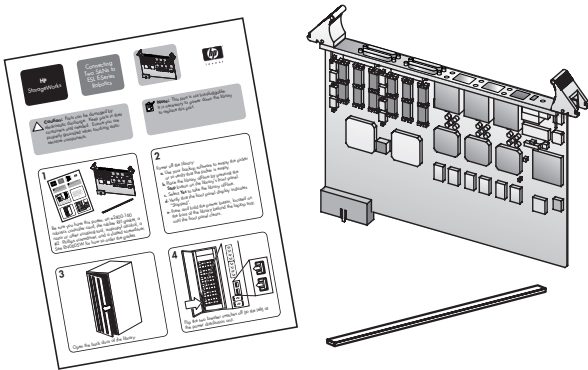


Caution: Parts can be damaged by electrostatic discharge. Keep parts in their containers until needed. Ensure you are properly grounded when touching static-sensitive components.



Note: This part is not hot-pluggable. It is necessary to power down the library to replace this part.

1



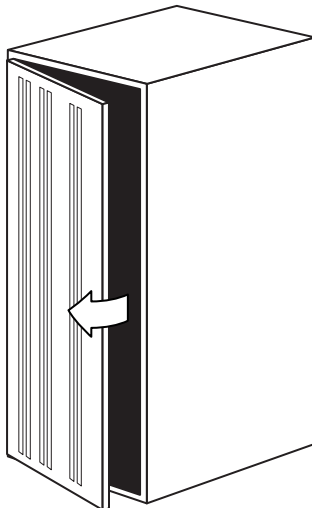
Be sure you have this poster, an e2400-160 robotics controller card, the rubber RFI gasket, a razor or other scraping tool, isopropyl alcohol, a #2 Phillips screwdriver, and a slotted screwdriver. See EN0605W for how to order the gasket.

2

Power off the library:

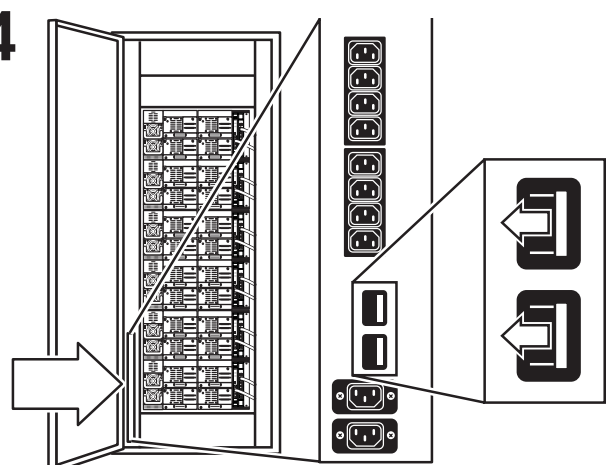
- a. Use your backup software to empty the picker or to verify that the picker is empty.
- b. Press and hold the power button, located on the front of the library behind the laptop tray, until the front panel clears.

3



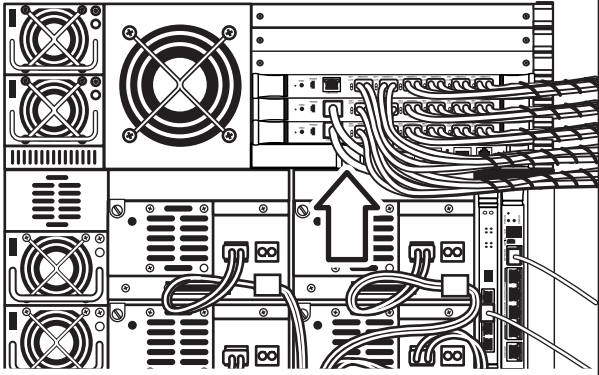
Open the back door of the library.

4



Flip the two breaker switches off (to the left) at the power distribution unit.

5



Identify the robotics controller. It is the narrowest card in the card cage, and is located in the bottom-most slot.

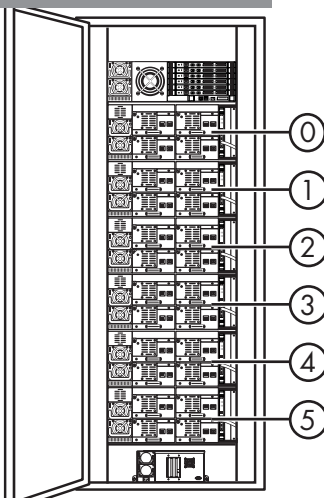


Note: To gain the access needed to continue with this procedure, HP recommends removing drive cluster 0. This poster provides instructions for this method.

You can also obtain access by emptying and removing the card cage, but that is usually more difficult. Instructions for removing the card cage are not presented here.

6

Remove cluster 0

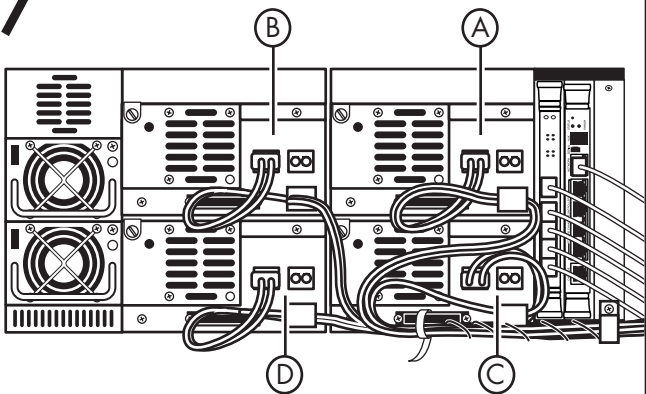


Identify drive cluster 0. It is the top-most drive cluster, located directly under the card cage.



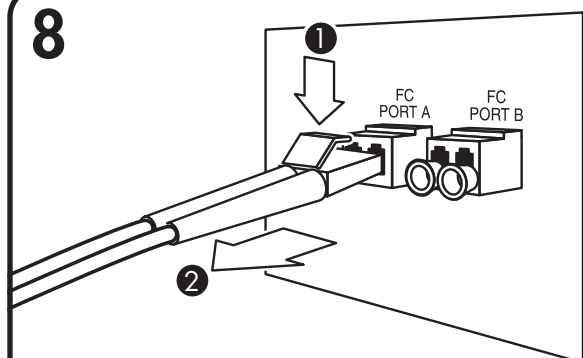
Note: This poster shows fibre drives, the procedure for SCSI drives is almost identical. If you need more information see the instructions for removing and replacing a SCSI tape drive in the service manual, or in the *ESL E-Series Tape Drive Replacement* poster (part number 350802-001).

7



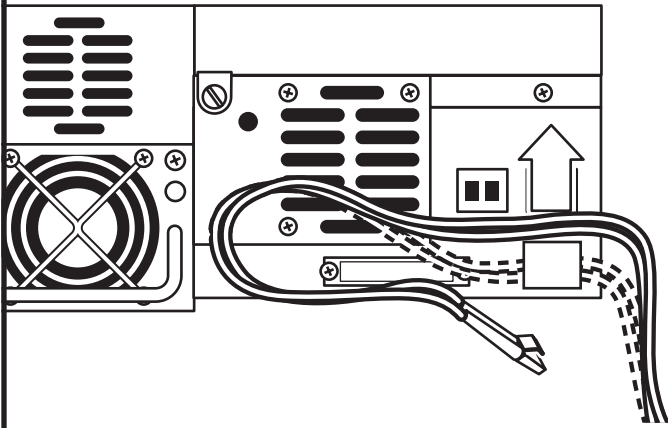
Label each Fibre Channel (FC) cable attached to a drive (A through D) so that you know which cable came from each location.

8



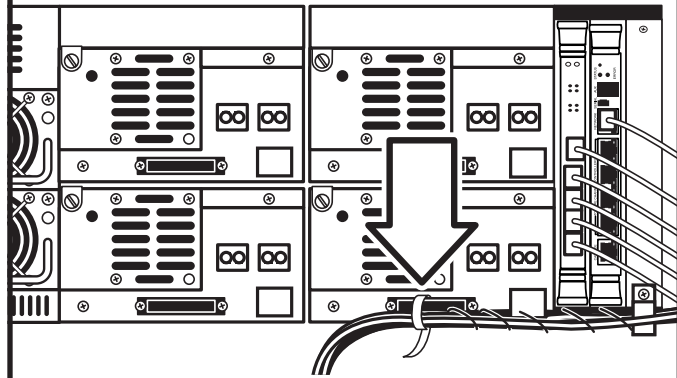
Disconnect the Fibre Channel (FC) cable from each drive by pressing down on the cable connector tab and pulling the connector away from the drive. **Caution:** To avoid damaging FC cables, do not pinch or sharply bend them.

9



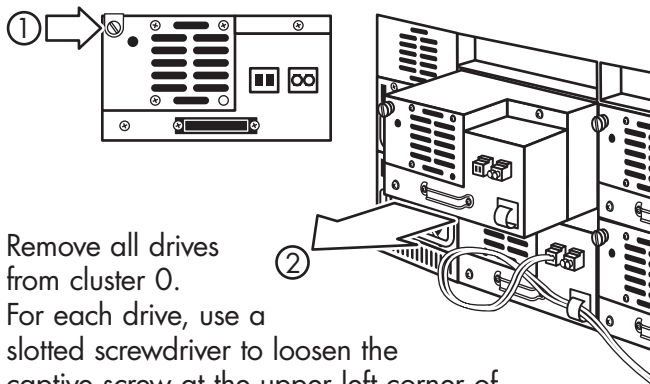
Remove the FC cables from the clips on the drives.

10



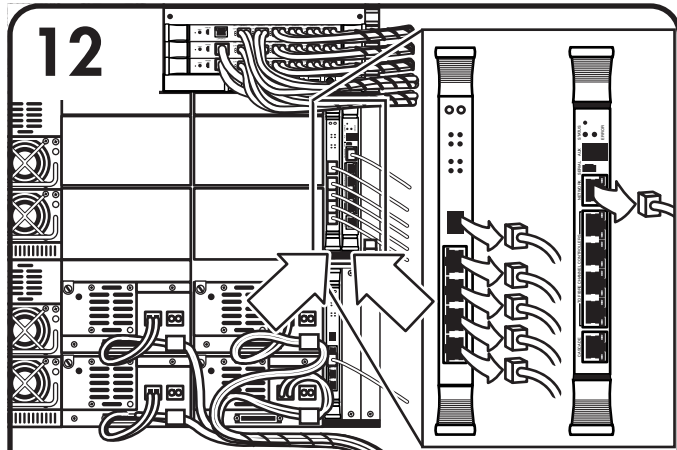
Remove the tie wrap that secures the cables to the drive handle on the lower right drive (drive C) in the cluster.

11



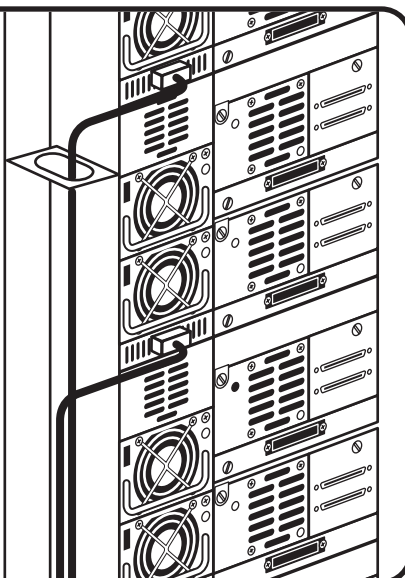
Remove all drives from cluster 0. For each drive, use a slotted screwdriver to loosen the captive screw at the upper left corner of the drive module. Grasp the drive handle and pull the drive from its bay. Set the drives aside.

12



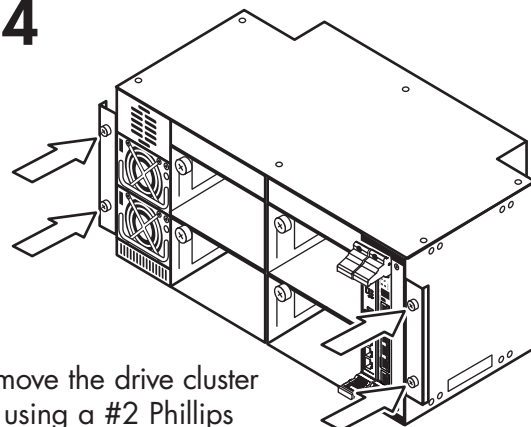
Label and disconnect the cables connected to the cluster controller card and the Interface Manager card.

13



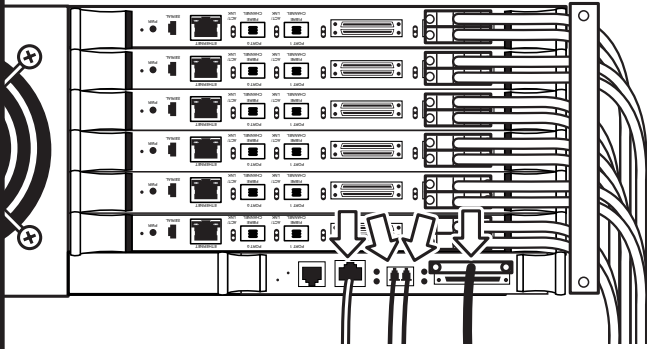
Remove the power cord that supplies power to cluster 0.

14



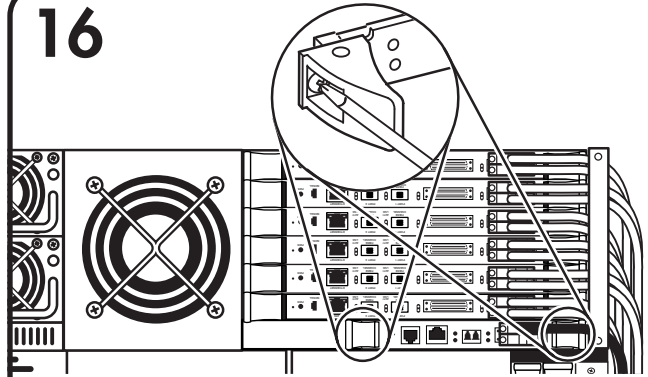
Remove the drive cluster by using a #2 Phillips screwdriver to remove the four screws that secure the drive cluster to the library frame. Remove the cluster and set it aside.

15 Remove the e1200-160 robotics controller card



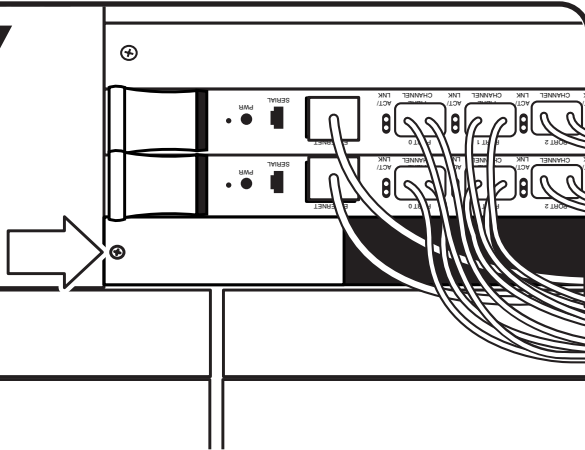
Label and disconnect the cables attached to the robotics controller card.

16



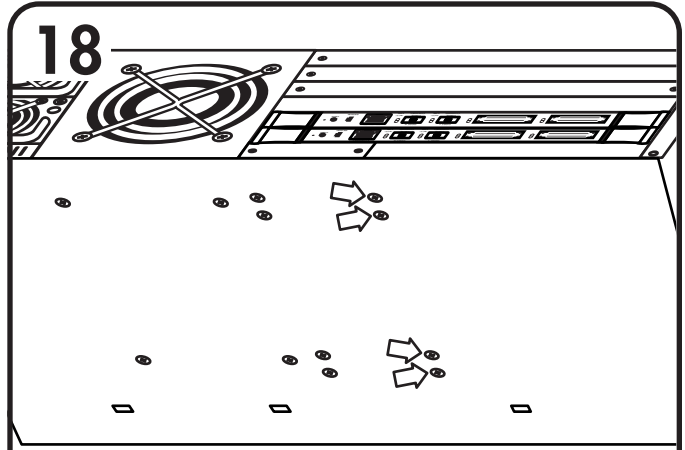
Use a #2 Phillips screwdriver to loosen the captive screws in the black ejector handles at both ends of the robotics controller. Push the ejector handles toward the outside, then pull on them to remove the controller.

17



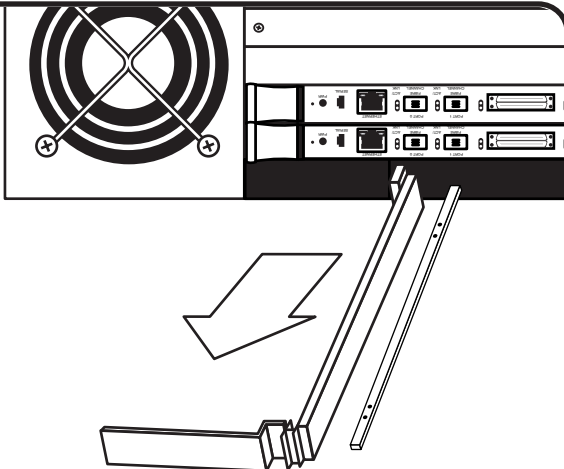
Using a #2 Phillips screwdriver, remove the 1 screw on the front of the metal spacer directly to the left of the e1200-160.

18



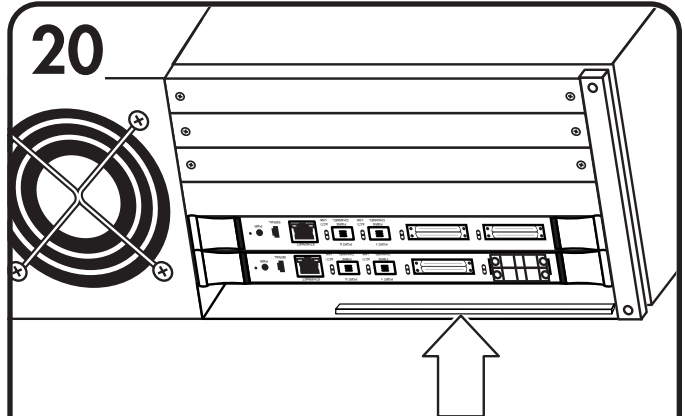
Using a #2 Phillips screwdriver, remove the 4 screws securing the metal spacer to the bottom of the card cage.

19



From the card cage, remove the metal spacer and the metal plate associated with the spacer.

20



Using a razor or scraper, remove the rubber gasket from the right side of the bottom of the robotics controller slot. Use isopropyl alcohol to clean any residue left on the card cage from the rubber gasket.